



- NOTES:
1. REWORK PHD POWERED SLIDE
P/N TS082 x .59 X -AJ1R2-D-V
 2. NO GREASE OR TEFLON COATING SHALL BE USED AS LUBRICANT.
 3. NO ELASTOMER MATERIAL SHALL BE USED AS SEAL
OR WIPER, EXCEPT VITON GRADED FOR 200°C.
 4. ACTUATOR CYLINDER TRAVEL DISTANCE
SHALL BE .590-.005 [15mm-.012].
 5. HEX HEAD SCREWS SHALL BE PLACED
IN THE TOOL PLATE BEFORE ASSEMBLY.
 6. ALL DIMENSIONS WITH [] ARE MILLIMETERS.
 7. LUBRICATE ALL THE VITON SEALS WITH DOW CORNING 710
FLUID LUBRICANT. THEN TEST THE CYLINDER FOR PROPER
ACTUATION. FLANGE SIDE COMPRESSION SEAL ON PISTON
BE POLY PAC. DOW CORNING 710 IS NOT DESIRABLE IN
VACUUM. CARE MUST BE EXERCISED TO AVOID CONTAMINATION OF
THE VACUUM CHAMBER DURING ASSEMBLY, TEST AND SHIPMENT.
 - 8.
 9. REPLACE CAST IRON GRAPHITE FILLED BUSHING
WITH BRONZE 660 BUSHING.
 10. SET SCREW TO BE LOOSEN FOR REMOVAL OF
CYLINDER ROD. FROM TOOL PLATE

SOURCE

1 PHD, INC.
AIRPORT AND PIPER DR.
FORT WAYNE, IN 46899
PHONE: (219) 747-6151

6	5/16 - 18 X 3/8" LG. SET SCREW	SST	2
5	5/16 - 18 X 1 1/4" LG. DR. HD. SHCS	SST	4
4	3/8-16 UNC-2B HEX NUT	SST	4
3	3/8-16 UNC-2B HEX JAM NUT	SST	4
2	3/8-16 UNC-3A x 2-3/4 LG. HHCS	SST	4
1	TS08 PHD SLIDE		1

ITEM	DISPART NUMBER	NOMENCLATURE OR DESCRIPTION	MATERIAL / SPEC	QTY
6		5/16 - 18 X 3/8" LG. SET SCREW	SST	2
5		5/16 - 18 X 1 1/4" LG. DR. HD. SHCS	SST	4
4		3/8-16 UNC-2B HEX NUT	SST	4
3		3/8-16 UNC-2B HEX JAM NUT	SST	4
2		3/8-16 UNC-3A x 2-3/4 LG. HHCS	SST	4
1		TS08 PHD SLIDE		1

LOG NUMBER		PARTS LIST	
A4710001-03		ARGONNE NATIONAL LABORATORY	
DRAWN BY	DATE	CHECKED BY	DATE
MUSCIA	10/5/98	D.SHU	10/19/98
CHECKED BY	DATE	DATE	DATE
J. CHANG	10/19/98	M. KUZAY	10/20/98
DESIGNED BY	DATE	PROJECT MGR	DATE
CHANG/MUSCIA	10/5/98		
RESPONSIBLE ENGINEER	DATE	APPROVED/RELEASED	DATE
J. CHANG	10/19/98		
MATERIAL		SCALE	
SEE PARTS LIST		1=2	
		D	

DRAWING NUMBER	
A4-71 15mm HEAVY LOAD PNEUMATIC ACTUATOR GUIDED CYLINDER SLIDE MODIFICATION	
DRAWING NUMBER	
A4-710001-03	